

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2085	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 2085 Kasson	M *	6.28						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.05	0.01		
Encroachments	0.01		0.01	0.16%	0.54			
Animal Control	0.02		0.02	0.32%				
Slope Stability	0.01		0.01	0.16%				
Erosion / Bank Caving		0.02	0.08	1.27%				
<i>Supplemental</i>								
DWR Erosion Survey	0.11		0.11	1.75%				
DWR UCIP Field Study					0.07			
DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	0.15	0.02	0.23	3.66% *	0.66	0.01	0.00	0.00
Unit No. 01 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
RD2085	A	5.29						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.05	0.01		
Encroachments	0.01		0.01	0.19%	0.53			
Animal Control	0.02		0.02	0.38%				
Slope Stability	0.01		0.01	0.19%				
<i>Supplemental</i>								
DWR Erosion Survey	0.11		0.11	2.08%				
DWR UCIP Field Study					0.07			
DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.15	0.00	0.15	2.84%	0.65	0.01	0.00	0.00
Unit No. 02 San Joaquin River	Overall Unit Rating	Total Unit Miles						
RD2085	A	0.70						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.01			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.01	0.00	0.00	0.00
Unit No. 03 San Joaquin River	Overall Unit Rating	Total Unit Miles						
RD2085	U	0.29						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Erosion / Bank Caving		0.02	0.08	27.14%				
<i>Unit Totals:</i>	0.00	0.02	0.08	27.14%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2018 Levee Inspection Results

Reclamation District No. 2085 Kasson

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than
10.00%; however, U Rated Miles are present,
so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	5.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/9/2018 - 3/9/2018		11/1/2018 - 11/1/2018	
DWR Inspector	Maksim Khashchuk		Zach Jojola	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD2085_01_s_2013_7				
Comment Code					
Inspector Comment					
The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD2085_01_s_2013_9				
Comment Code					
Inspector Comment					
Flood fighting supplies are available at the River Club.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD2085_01_s_2013_14				
Comment Code					
Inspector Comment					
The LMA has a flood fighting plan and training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.12	Rating **	A/W	Issue No.	19
LM End	0.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.719052 °	37.723246 °
				-121.302928 °	-121.299492 °
DWR ID	DWR_RD2085_01_f_2015_19				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Disking on the levee shoulder. Make sure the water drains evenly to the slopes.					

Photo 1 of 1 : FA_2018_RD2085_113_19_20180911_00011.jpg



View of the disking on the levee crown shoulder.

LM Start	0.53	Rating **	A/W	Issue No.	52
LM End	0.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.723415 °	37.723415 °
				-121.298596 °	-121.298596 °
DWR ID	20677				
Comment Code					
Inspector Comment					
FS_ID:52493 DS_ID:20677 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pipe has been removed by LMA.Previous:Pipe abandoned. Erosion around pipe on WS slope. Pipe severely corroded. Pier badly damaged. FIELD_STRUCT_DESC: *REMOVED* 14-inch steel drainage pipe through the levee, 4.5 feet below the crown. Pump on pile structure in ditch on the landside (LS). Siphon breaker in corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Pipe removed by LMA. (Permit Application No. T2013179, 2014 - Surinder Sandhu, submitted to CVFPB. Permit was not needed per CVFPB review). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 0.47)]. FS Date: 9/5/2013					

Photo 1 of 3 : UCIP_FA_2018_52493_62262.jpg



(Pipe removed by LMA)Pipe on WS with erosion into levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.53	Rating **	A/W	Issue No.	52 (cont)	
LM End	0.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.723415 °	37.723415 °	
				-121.298596 °	-121.298596 °	
DWR ID	20677					
Comment Code						
Inspector Comment						
FS_ID:52493 DS_ID:20677 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pipe has been removed by LMA.Previous:Pipe abandoned. Erosion around pipe on WS slope. Pipe severely corroded. Pier badly damaged. FIELD_STRUCT_DESC: *REMOVED* 14-inch steel drainage pipe through the levee, 4.5 feet below the crown. Pump on pile structure in ditch on the landside (LS). Siphon breaker in corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Pipe removed by LMA. (Permit Application No. T2013179, 2014 - Surinder Sandhu, submitted to CVFPB. Permit was not needed per CVFPB review). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 0.47)]. FS Date: 9/5/2013						

LM Start	0.53	Rating **	A/W	Issue No.	52 (cont)
LM End	0.53	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_52493_62261.jpg



Pipe removed from WS toe.

Photo 3 of 3 : UCIP_FA_2018_52493_62260.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder was removed by LMA.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.86	Rating **	A/W	Issue No.	40
LM End	0.92	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.720010°	37.719390°
				-121.294420°	-121.293680°
DWR ID	DWR_RD2085_01_f_2017_40				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:108					
Site Designation:197-123					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	0.93	Rating **	A/W	Issue No.	41
LM End	1.35	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.719380°	37.714120°
				-121.293530°	-121.289560°
DWR ID	DWR_RD2085_01_f_2017_41				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:107					
Site Designation:197-113					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.15	Rating **	M	Issue No.	1
LM End	1.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.715996 °	37.715996 °
				-121.291229 °	-121.291229 °
DWR ID	RD2085U01RM62.43				
Comment Code					
Inspector Comment					
11/02/2017: The erosion was reported to DWR by LMA. The site is located at the outside of a slight river bend. Both levee slope and river bank are covered with dense vegetation. [2017 Site ID:RD2085U01RM62.43]					

Photo 1 of 4 : FA_2018_RD2085_113_1_20180911_00001.jpg



Looking upstream at the erosion site. Note the dense vegetation and the trees at the upstream of the erosion.

LM Start	1.15	Rating **	M	Issue No.	1 (cont)
LM End	1.26	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2018_RD2085_113_1_20180911_00002.jpg



Looking downstream at the erosion site.

LM Start	1.15	Rating **	M	Issue No.	1 (cont)
LM End	1.26	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2018_RD2085_113_1_20180911_00003.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.15	Rating **	M	Issue No.	1 (cont)	
LM End	1.26	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.715996 °	37.715996 °	
				-121.291229 °	-121.291229 °	
DWR ID	RD2085U01RM62.43					
Comment Code						
Inspector Comment						
11/02/2017: The erosion was reported to DWR by LMA. The site is located at the outside of a slight river bend. Both levee slope and river bank are covered with dense vegetation. [2017 Site ID:RD2085U01RM62.43]						

Photo 4 of 4 : FA_2018_RD2085_113_1_20180911_00004.jpg



Close view of the erosion.

LM Start	1.34	Rating **	M	Issue No.	6
LM End	1.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.714265 °	37.714056 °
				-121.289641 °	-121.289069 °
DWR ID	DWR_RD2085_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					
Drainage ditch at levee toe.					

Photo 1 of 1 : FA_2018_RD2085_113_6_20180911_00010.jpg



View of the ditch at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.35	Rating **	M	Issue No.	53	
LM End	1.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.714404 °	37.714404 °	
				-121.289469 °	-121.289469 °	
DWR ID	24055					
Comment Code						
Inspector Comment						
FS_ID:22285						
DS_ID:24055						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this modified crossing.						
FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 3 feet below the crown. Pump mounted on pile structure in ditch on the landside (LS). Gate valve and siphon breaker in a 12-inch steel riser on the waterside (WS) shoulder. (Permit No. 8189, 1972 - Reclamation District No. 2085).						
FS Date: 9/10/2013						

LM Start	1.35	Rating **	M	Issue No.	53 (cont)
LM End	1.35	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_22285_38010.jpg



Pipe, gate valve, and siphon breaker visible on WS slope.

Photo 2 of 3 : UCIP_FA_2018_22285_38009.jpg



Pipe, pump, and walkway visible on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.35	Rating **	M	Issue No.	53 (cont)	
LM End	1.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.714404 °	37.714404 °	
				-121.289469 °	-121.289469 °	
DWR ID	24055					
Comment Code						
Inspector Comment						
FS_ID:22285						
DS_ID:24055						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this modified crossing.						
FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 3 feet below the crown. Pump mounted on pile structure in ditch on the landside (LS). Gate valve and siphon breaker in a 12-inch steel riser on the waterside (WS) shoulder. (Permit No. 8189, 1972 - Reclamation District No. 2085).						
FS Date: 9/10/2013						

Photo 3 of 3 : UCIP_FA_2018_22285_38008.jpg



Pipe, gate valve, and siphon breaker visible on WS slope.

LM Start	1.40	Rating **	M	Issue No.	24
LM End	1.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.714114 °	37.714114 °
				-121.288617 °	-121.288617 °
DWR ID	DWR_RD2085_01_f_2018_24				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large limb on the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.41	Rating **	M	Issue No.	54	
LM End	1.41	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.714049°	37.714049°	
				-121.288426°	-121.288426°	
DWR ID	20679					
Comment Code						
Inspector Comment						
FS_ID:41351						
DS_ID:20679						
EP_NO: 3975						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe abandoned and should be done so properly.						
Large hole in ground over pipe on WS berm. Pipe rusted through on						
WS at river bank. No connection to pump on LS toe.						
FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe						
through the levee, 4 feet below the crown. Steel plate over pipe end at						
pump station on the landside (LS) toe. Siphon breaker in a 24-inch						
corrugated metal pipe (CMP) riser on the waterside (WS) shoulder.						
(Permit No. 3975, 1962 - Glenn West Trust). [Additional Reference(s):						
DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968,						
(HLM 1.35)].						
FS Date: 9/5/2013						

LM Start	1.41	Rating **	M	Issue No.	54 (cont)
LM End	1.41	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_41351_62268.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

Photo 2 of 3 : UCIP_FA_2018_41351_62267.jpg



Pipe visible at bottom of ditch on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.41	Rating **	M	Issue No.	54 (cont)	
LM End	1.41	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.714049°	37.714049°	
				-121.288426°	-121.288426°	
DWR ID	20679					
Comment Code						
Inspector Comment						
FS_ID:41351						
DS_ID:20679						
EP_NO: 3975						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe abandoned and should be done so properly.						
Large hole in ground over pipe on WS berm. Pipe rusted through on						
WS at river bank. No connection to pump on LS toe.						
FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe						
through the levee, 4 feet below the crown. Steel plate over pipe end at						
pump station on the landside (LS) toe. Siphon breaker in a 24-inch						
corrugated metal pipe (CMP) riser on the waterside (WS) shoulder.						
(Permit No. 3975, 1962 - Glenn West Trust). [Additional Reference(s):						
DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968,						
(HLM 1.35)].						
FS Date: 9/5/2013						

Photo 3 of 3 : UCIP_FA_2018_41351_62266.jpg



Pipe visible at bottom of ditch on LS toe.

LM Start	1.63	Rating **	C	Issue No.	43
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.712676 °	37.712676 °
				-121.284732 °	-121.284732 °
DWR ID	DWR_RD2085_01_s_2017_43				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.79	Rating **	C	Issue No.	39
LM End	1.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.711456 °	37.711456 °
				-121.282397 °	-121.282397 °
DWR ID	DWR_RD2085_01_f_2018_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee.					

No Photos

LM Start	1.98	Rating **	A/W	Issue No.	31
LM End	1.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.709441 °	37.709441 °
				-121.279973 °	-121.279973 °
DWR ID	DWR_RD2085_01_f_2018_31				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Some older rodent holes on the waterside slope. Recommend monitoring.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.04	Rating **	M	Issue No.	55
LM End	2.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.708826 °	37.708826 °
				-121.279271 °	-121.279271 °
DWR ID	20681				
Comment Code					
Inspector Comment					
FS_ID:19423 DS_ID:20681 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe is abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure. Originally included in the 1968 O&M manual. FS Date: 9/5/2013 8:22:24 AM					

LM Start	2.04	Rating **	M	Issue No.	55 (cont)
LM End	2.04	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_19423_32962.jpg



Siphon breaker in 24-inch CMP riser on LS slope. Possible gate valve at end of concrete channel on LS toe.

Photo 2 of 3 : UCIP_FA_2018_19423_32961.jpg



Pipe cut at wooden pier. No pump on end of pier for this pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.04	Rating **	M	Issue No.	55 (cont)
LM End	2.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.708826 °	37.708826 °
				-121.279271 °	-121.279271 °
DWR ID	20681				
Comment Code					
Inspector Comment					
FS_ID:19423 DS_ID:20681 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe is abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure. Originally included in the 1968 O&M manual. FS Date: 9/5/2013 8:22:24 AM					

Photo 3 of 3 : UCIP_FA_2018_19423_32960.jpg



Power pole on LS toe.

LM Start	2.05	Rating **	M	Issue No.	18
LM End	2.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.708737 °	37.703893 °
				-121.279087 °	-121.274605 °
DWR ID	DWR_RD2085_01_s_2012_18				
Comment Code					
DT : Ditch					
Inspector Comment					
Concrete-lined ditch near levee toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.21	Rating **	M	Issue No.	35
LM End	2.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.707877 °	37.707877 °
				-121.276563 °	-121.276563 °
DWR ID	DWR_RD2085_01_f_2018_35				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on the waterside slope.					

No Photos

LM Start	2.56	Rating **	A/W	Issue No.	2
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.703094 °	37.703094 °
				-121.274894 °	-121.274894 °
DWR ID	RD2085U01RM66.5				
Comment Code					
Inspector Comment					
11/1/2018: This site was repaired within the past week.					
10/04/2017: The erosion has progressed significantly toward the levee toe.					
07/08/2016: No significant change observed.					
09/10/2015: No significant change observed. Signs of animal activity are present.					
09/10/2014: No significant change observed.					
09/20/2013: No significant change in erosion observed. More vegetation at the site.					
12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage.					
09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope.					
08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2017 Site ID:RD2085U01RM66.5]					

Photo 1 of 4 : FA_2018_RD2085_113_2_20180911_00005.jpg



Close view of the erosion. Note the dense vegetation at the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.56	Rating **	A/W	Issue No.	2 (cont)	
LM End	2.58	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.703094 °	37.703094 °	
				-121.274894 °	-121.274894 °	
DWR ID	RD2085U01RM66.5					
Comment Code						
Inspector Comment						
11/1/2018: This site was repaired within the past week.						
10/04/2017: The erosion has progressed significantly toward the levee toe.						
07/08/2016: No significant change observed.						
09/10/2015: No significant change observed. Signs of animal activity are present.						
09/10/2014: No significant change observed.						
09/20/2013: No significant change in erosion observed. More vegetation at the site.						
12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage.						
09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope.						
08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2017 Site ID:RD2085U01RM66.5]						

LM Start	2.56	Rating **	A/W	Issue No.	2 (cont)
LM End	2.58	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2018_RD2085_113_2_20180911_00006.jpg



Close view of the erosion.

Photo 3 of 4 : FA_2018_RD2085_113_2_20180911_00007.jpg



Direct view of the erosion. Note the sign of erosion expansion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.56	Rating **	A/W	Issue No.	2 (cont)	
LM End	2.58	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.703094 °	37.703094 °	
				-121.274894 °	-121.274894 °	
DWR ID	RD2085U01RM66.5					
Comment Code						
Inspector Comment						
11/1/2018: This site was repaired within the past week.						
10/04/2017: The erosion has progressed significantly toward the levee toe.						
07/08/2016: No significant change observed.						
09/10/2015: No significant change observed. Signs of animal activity are present.						
09/10/2014: No significant change observed.						
09/20/2013: No significant change in erosion observed. More vegetation at the site.						
12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage.						
09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope.						
08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2017 Site ID:RD2085U01RM66.5]						

Photo 4 of 4 : FA_2018_RD2085_113_2_20180911_00008.jpg



Close view of the erosion.

LM Start	2.57	Rating **	A/W	Issue No.	48	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.703094 °		°
				-121.274894 °		°
DWR ID	DWR_RD2085_01_f_2017_48					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:105						
Site Designation:FSRP-13-55						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/8/2017						
Notes: This site is repaired as of this inspection date. Fall 2018.						

Photo 1 of 3 : LEVAL_FA_2018_105_262.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.57	Rating **	A/W	Issue No.	48 (cont)	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			37.703094 °		°
				-121.274894 °		°
DWR ID	DWR_RD2085_01_f_2017_48					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:105						
Site Designation:FSRP-13-55						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/8/2017						
Notes: This site is repaired as of this inspection date. Fall 2018.						

LM Start	2.57	Rating **	A/W	Issue No.	48 (cont)
LM End		Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_FA_2018_105_271.jpg



Photo 3 of 3 : LEVAL_FA_2018_105_272.jpg

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.58	Rating **	A/W	Issue No.	20
LM End	2.58	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			37.702903 °	37.702903 °
				-121.274860 °	-121.274860 °
DWR ID	DWR_RD2085_01_s_2012_20				
Comment Code					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD2085_113_20_20180911_00012.jpg



View of the underseepage relief wells at the landside levee toe.

LM Start	2.82	Rating **	M	Issue No.	56
LM End	2.82	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699698 °	37.699698 °
				-121.276325 °	-121.276325 °
DWR ID	20688				
Comment Code					
Inspector Comment					
FS_ID:19431					
DS_ID:20688					
EP_NO: 16970					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: The wooden walkway on the WS slope is in disrepair.					
FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the					
levee, 2 feet below the crown. Pump on wooden pier on the waterside					
(WS) slope. Siphon breaker visible next to steel bollard on the landside					
(LS) slope. Power pole on the LS toe. [Additional Reference(s): USACE					
San Joaquin O&M Manual 11, 1968, (HLM 2.74)].					
FS Date: 9/5/2013					

Photo 1 of 3 : UCIP_FA_2018_19431_32983.jpg



Pump on Wooden pier at WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.82	Rating **	M	Issue No.	56 (cont)	
LM End	2.82	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.699698 °	37.699698 °	
				-121.276325 °	-121.276325 °	
DWR ID	20688					
Comment Code						
Inspector Comment						
FS_ID:19431						
DS_ID:20688						
EP_NO: 16970						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: The wooden walkway on the WS slope is in disrepair.						
FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the						
levee, 2 feet below the crown. Pump on wooden pier on the waterside						
(WS) slope. Siphon breaker visible next to steel bollard on the landside						
(LS) slope. Power pole on the LS toe. [Additional Reference(s): USACE						
San Joaquin O&M Manual 11, 1968, (HLM 2.74)].						
FS Date: 9/5/2013						

Photo 2 of 3 : UCIP_FA_2018_19431_32982.jpg



Pipe visible under walkway on WS slope.

LM Start	2.82	Rating **	M	Issue No.	56 (cont)
LM End	2.82	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_19431_32981.jpg



Power pole on LS toe with possible PVC riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.90	Rating **	A/W	Issue No.	21
LM End	2.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698700°	37.698700°
				-121.277199°	-121.277199°
DWR ID	DWR_RD2085_01_f_2015_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This area should be monitored for possible rodent activity.					

No Photos

LM Start	3.27	Rating **	C	Issue No.	42
LM End	3.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.694085°	37.694085°
				-121.277378°	-121.277378°
DWR ID	DWR_RD2085_01_s_2017_42				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.30	Rating **	M	Issue No.	57	
LM End	3.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.693618 °		37.693618 °
				-121.277639 °		-121.277639 °
DWR ID	20693					
Comment Code						
Inspector Comment						
FS_ID:19433 DS_ID:20693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel storm drainage pipe through the levee, 4 feet below the crown. T-post marks location of pipe at the landside (LS) toe. Steel plate welded over pipe on the waterside (WS) slope. [Additional Reference(s): USACE San Joaquin O&M Manual 11, 1968, (HLM 3.34), As-Built Drawings available, DWG 7-4-1685]. FS Date: 9/5/2013						

LM Start	3.30	Rating **	M	Issue No.	57 (cont)
LM End	3.30	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_19433_32990.jpg



T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.

Photo 2 of 3 : UCIP_FA_2018_19433_32989.jpg



Pipe visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.30	Rating **	M	Issue No.	57 (cont)	
LM End	3.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.693618 °		37.693618 °
				-121.277639 °		-121.277639 °
DWR ID	20693					
Comment Code						
Inspector Comment						
FS_ID:19433						
DS_ID:20693						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel storm drainage pipe through the levee, 4 feet below the crown. T-post marks location of pipe at the landside (LS) toe. Steel plate welded over pipe on the waterside (WS) slope. [Additional Reference(s): USACE San Joaquin O&M Manual 11, 1968, (HLM 3.34), As-Built Drawings available, DWG 7-4-1685].						
FS Date: 9/5/2013						

Photo 3 of 3 : UCIP_FA_2018_19433_32988.jpg



Pipe visible on WS slope. Steel plate welded over end.

LM Start	3.34	Rating **	N	Issue No.	30
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.693019 °	37.693019 °
				-121.277892 °	-121.277892 °
DWR ID	DWR_RD2085_01_s_2014_30				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.42	Rating **	M	Issue No.	58	
LM End	3.42	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.691966 °	37.691966 °	
				-121.278122 °	-121.278122 °	
DWR ID	20687					
Comment Code						
Inspector Comment						
FS_ID:19435 DS_ID:20687 EP_NO: 16970 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 10-inch steel drainage pipe through the levee, 2 feet below the crown. Appears to connect to pump 150 feet off the landside (LS) toe. Possible butterfly valve at the LS toe. Vent on the waterside (WS) shoulder. Steel plate welded over pipe end on the WS toe. FS Date: 9/5/2013						

LM Start	3.42	Rating **	M	Issue No.	58 (cont)
LM End	3.42	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_19435_32993.jpg



Possible Butterfly valve at LS toe.

Photo 2 of 3 : UCIP_FA_2018_19435_32992.jpg



Possible connection at pump 150-feet off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.42	Rating **	M	Issue No.	58 (cont)	
LM End	3.42	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.691966 °	37.691966 °	
				-121.278122 °	-121.278122 °	
DWR ID	20687					
Comment Code						
Inspector Comment						
FS_ID:19435 DS_ID:20687 EP_NO: 16970 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 10-inch steel drainage pipe through the levee, 2 feet below the crown. Appears to connect to pump 150 feet off the landside (LS) toe. Possible butterfly valve at the LS toe. Vent on the waterside (WS) shoulder. Steel plate welded over pipe end on the WS toe. FS Date: 9/5/2013						

Photo 3 of 3 : UCIP_FA_2018_19435_32991.jpg



Vent on WS shoulder.

LM Start	3.55	Rating **	C	Issue No.	44
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690418 °	37.690418 °
				-121.276815 °	-121.276815 °
DWR ID	DWR_RD2085_01_s_2016_44				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.57	Rating **	C	Issue No.	45
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690161°	37.690161°
				-121.276543°	-121.276543°
DWR ID	DWR_RD2085_01_s_2016_45				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.65	Rating **	C	Issue No.	37
LM End	3.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.689090°	37.689090°
				-121.276326°	-121.276326°
DWR ID	DWR_RD2085_01_f_2016_37				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.68	Rating **	C	Issue No.	51
LM End	3.82	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.688570 °	37.686620 °
				-121.276450 °	-121.276790 °
DWR ID	DWR_RD2085_01_f_2017_51				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:106					
Site Designation:DWR_RD2085_01_R_2012_01					
Repair Type: Erosion					
Rating:Critical					
Field Date:6/8/2017					
Notes: Adjusted starting and ending points for this site. Site has been repaired.					

No Photos

LM Start	3.71	Rating **	C	Issue No.	25
LM End	3.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.688216 °	37.688216 °
				-121.276603 °	-121.276603 °
DWR ID	DWR_RD2085_01_f_2015_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Control levee access to prevent damage to levee slopes by vehicle.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.74	Rating **	A/W	Issue No.	26
LM End	3.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687841°	37.687841°
				-121.276678°	-121.276678°
DWR ID	DWR_RD2085_01_f_2015_26				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Area should be maintained to prevent further levee damage.					

Photo 1 of 1 : FA_2018_RD2085_113_26_20180911_00014.jpg



View of the foot path on the levee slope.

LM Start	3.78	Rating **	C	Issue No.	46
LM End	3.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687253°	37.687253°
				-121.276780°	-121.276780°
DWR ID	DWR_RD2085_01_s_2016_46				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kason

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.80	Rating **	A/W	Issue No.	59
LM End	3.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686976 °	37.686976 °
				-121.276838 °	-121.276838 °
DWR ID	20683				
Comment Code					
Inspector Comment					
FS_ID:19436 DS_ID:20683 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12 feet below the crown. Slide gate in concrete riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. Two concrete cutoff walls. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 3.71)]. FS Date: 9/5/2013 9:49:55 AM					

LM Start	3.80	Rating **	A/W	Issue No.	59 (cont)
LM End	3.80	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_19436_32997.jpg



Slide gate in Concrete riser on WS shoulder.

Photo 2 of 3 : UCIP_FA_2018_19436_32996.jpg



Concrete headwall off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.80	Rating **	A/W	Issue No.	59 (cont)
LM End	3.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686976 °	37.686976 °
				-121.276838 °	-121.276838 °
DWR ID	20683				
Comment Code					
Inspector Comment					
FS_ID:19436 DS_ID:20683 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12 feet below the crown. Slide gate in concrete riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. Two concrete cutoff walls. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 3.71)]. FS Date: 9/5/2013 9:49:55 AM					

Photo 3 of 3 : UCIP_FA_2018_19436_32995.jpg



Concrete U-shaped headwall on WS slope.

LM Start	3.81	Rating **	M	Issue No.	38
LM End	3.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.686774 °	37.686774 °
				-121.276810 °	-121.276810 °
DWR ID	DWR_RD2085_01_f_2018_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent hole on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.86	Rating **	A/W	Issue No.	36
LM End	3.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.686059 °	37.685340 °
				-121.276745 °	-121.276594 °
DWR ID	DWR_RD2085_01_f_2016_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Area should be monitored for possible rodent activity.					

Photo 1 of 1 : FA_2018_RD2085_113_36_20180911_00022.jpg



View of the rodent holes on the levee slope.

LM Start	4.03	Rating **	M	Issue No.	60
LM End	4.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.683642 °	37.683642 °
				-121.275792 °	-121.275792 °
DWR ID	20684				
Comment Code					
Inspector Comment					
FS_ID:19443					
DS_ID:20684					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: This pipe appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 4 feet below the crown. Pump house on the waterside (WS) berm. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Vent on the WS toe. 2-inch galvanized iron electrical conduit at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 3.95)].					
FS Date: 9/5/2013					

Photo 1 of 3 : UCIP_FA_2018_19443_33002.jpg



Pumphouse and pipe visible on WS toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	4.03	Rating **	M	Issue No.	60 (cont)	
LM End	4.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.683642 °	37.683642 °	
				-121.275792 °	-121.275792 °	
DWR ID	20684					
Comment Code						
Inspector Comment						
FS_ID:19443 DS_ID:20684 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 4 feet below the crown. Pump house on the waterside (WS) berm. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Vent on the WS toe. 2-inch galvanized iron electrical conduit at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 3.95)]. FS Date: 9/5/2013						

Photo 2 of 3 : UCIP_FA_2018_19443_33001.jpg



Siphon breaker on vent in 24-inch CMP riser on LS shoulder.

LM Start	4.03	Rating **	M	Issue No.	60 (cont)
LM End	4.03	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_19443_33000.jpg



Pump missing from pipe in pump house on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	4.15	Rating **	C	Issue No.	34
LM End	4.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.682495 °	37.682495 °
				-121.274169 °	-121.274169 °
DWR ID	DWR_RD2085_01_f_2016_34				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes were repaired and the area should be monitored for possible rodent activity.					

No Photos

LM Start	4.40	Rating **	M	Issue No.	33
LM End	4.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.681863 °	37.681640 °
				-121.269856 °	-121.269046 °
DWR ID	DWR_RD2085_01_s_2012_33				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD2085_113_33_20180911_00019.jpg



View of the landscaping at the landside levee slope.

LM Start	4.40	Rating **	M	Issue No.	33 (cont)
LM End	4.45	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_RD2085_113_33_20180911_00020.jpg



Updated photo of encroachments on landside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	4.43	Rating **	M	Issue No.	27
LM End	4.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.681710 °	37.681710 °
				-121.269290 °	-121.269290 °
DWR ID	DWR_RD2085_01_f _ 2015_27				
Comment Code					
MA : Material					
Inspector Comment					

A photograph showing a white truck and a white trailer parked inside a large metal structure, possibly a storage shed or a covered parking area. In front of the truck, a boat is parked on a trailer. The ground is dirt and gravel. A date stamp '11/16/2015' is visible in the bottom right corner.

View of the material stored at the landside levee toe.

LM Start	4.46	Rating **	N	Issue No.	32
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.681605 °	37.681605 °
				-121.268882 °	-121.268882 °
DWR ID	DWR_RD2085_01_s_2012_32				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

A photograph showing a large, weathered tree stump in the foreground, surrounded by dry grass and some green vegetation. In the background, there is a white fence and a house with a grey roof. The scene appears to be a residential yard or a park area.

11/03/2011 Large stump on landside slope.

LM Start	4.49	Rating **	U	Issue No.	28
LM End	4.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.681453 °	37.681453 °
				-121.268327 °	-121.268327 °
DWR ID	DWR_RD2085_01_f_2015_28				
Comment Code					
V6 : Landscaping					
Inspector Comment					

View of the unmaintained vegetation at the landside levee toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	4.60	Rating **	M	Issue No.	47
LM End	4.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.681101°	37.681101°
				-121.266380°	-121.266380°
DWR ID	DWR_RD2085_01_f_2018_47				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limb at the landside toe.					

Photo 1 of 1 : FA_2018_RD2085_113_47_20181105_00069.jpg



View of tree limb within the landside easement. Fall 2018.

LM Start	5.01	Rating **	M	Issue No.	49
LM End	5.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.677852 °	37.677852 °
				-121.268560 °	-121.268560 °
DWR ID	DWR_RD2085_01_f_2018_49				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large fallen tree on the watersdie slope.					

No Photos

LM Start	5.04	Rating **	A/W	Issue No.	3
LM End	5.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.677735 °	37.677735 °
				-121.269132 °	-121.269132 °
DWR ID	DWR_RD2085_01_f_2017_3				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Recommend removing volunteer tree.					

Photo 1 of 1 : FA_2018_RD2085_113_3_20180911_00009.jpg



View of the volunteer tree at the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	5.22	Rating **	A/W	Issue No.	61	
LM End	5.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.675271 °	37.675271 °	
				-121.269281 °	-121.269281 °	
DWR ID	20686					
Comment Code						
Inspector Comment						
FS_ID:23060						
DS_ID:20686						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 30-inch reinforced concrete drainage pipe through the levee, 10 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Two corrugated metal cutoff walls. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 5.12)].						
FS Date: 9/5/2013						

LM Start	5.22	Rating **	A/W	Issue No.	61 (cont)
LM End	5.22	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_23060_39184.jpg



Cuts in pavement off LS toe good indicator of pipe location.

Photo 2 of 3 : UCIP_FA_2018_23060_39183.jpg



Concrete U-shaped headwall visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	5.22	Rating **	A/W	Issue No.	61 (cont)	
LM End	5.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.675271 °	37.675271 °	
				-121.269281 °	-121.269281 °	
DWR ID	20686					
Comment Code						
Inspector Comment						
FS_ID:23060						
DS_ID:20686						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 30-inch reinforced concrete drainage pipe through the levee, 10 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Two corrugated metal cutoff walls. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 5.12)].						
FS Date: 9/5/2013						

Photo 3 of 3 : UCIP_FA_2018_23060_39182.jpg



Concrete U-shaped headwall and flapgate visible on WS toe.

LM Start	5.23	Rating **	M	Issue No.	62
LM End	5.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.675244 °	37.675244 °
				-121.269287 °	-121.269287 °
DWR ID	24058				
Comment Code					
Inspector Comment					
FS_ID:22290 DS_ID:24058 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, at an unknown depth. Siphon breaker in a 10-inch steel riser on the landside (LS) shoulder. FS Date: 9/10/2013					

Photo 1 of 3 : UCIP_FA_2018_22290_38020.jpg



Siphon breaker in 10-inch steel riser on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	5.23	Rating **	M	Issue No.	62 (cont)
LM End	5.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.675244 °	37.675244 °
				-121.269287 °	-121.269287 °
DWR ID	24058				
Comment Code					
Inspector Comment					
FS_ID:22290 DS_ID:24058 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, at an unknown depth. Siphon breaker in a 10-inch steel riser on the lanside (LS) shoulder. FS Date: 9/10/2013					

LM Start	5.23	Rating **	M	Issue No.	62 (cont)
LM End	5.23	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_22290_38019.jpg



Cuts in pavement may indicate alignment of pipe at LS toe.

Photo 3 of 3 : UCIP_FA_2018_22290_38018.jpg



Pipe visible at pond outlet off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	5.24	Rating **	N	Issue No.	29
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.675099 °	37.675099 °
				-121.269264 °	-121.269264 °
DWR ID	DWR_RD2085_01_f_2015_29				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD2085_113_29_20180911_00017.jpg



View of the tree stump.

LM Start	5.24	Rating **	M	Issue No.	50
LM End	5.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.675060 °	37.675060 °
				-121.269264 °	-121.269264 °
DWR ID	DWR_RD2085_01_f_2018_50				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.70
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/9/2018 - 3/9/2018		11/1/2018 - 11/1/2018	
DWR Inspector	Maksim Khashchuk		Zach Jojola	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.70	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.02	Rating **	A	Issue No.	1
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.705091°	37.705091°
				-121.274535°	-121.274535°
DWR ID	DWR_RD2085_02_f_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The LMA maintains this levee at a high level.					

Photo 1 of 1 : FA_2018_RD2085_114_1_20181105_00001.jpg



View of maintained waterside slope. Fall 2018.

LM Start	0.25	Rating **	M	Issue No.	2
LM End	0.25	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.708043 °	37.708043 °
				-121.272835 °	-121.272835 °
DWR ID	DWR_RD2085_02_f_2018_2				
Comment Code					
PI : Pipe					
Inspector Comment					
Temporary irrigation pipe on the levee crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River				0.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/9/2018 - 3/9/2018		11/1/2018 - 11/1/2018	
DWR Inspector	Maksim Khashchuk		Zach Jojola	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.21	Rating **	U	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.682798 °	37.683052 °
				-121.262059 °	-121.261851 °
DWR ID	DWR_RD2085_03_s_2014_1				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.					

LM Start	0.21	Rating **	U	Issue No.	1 (cont)
LM End	0.23	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : FA_2018_RD2085_115_1_20181105_00004.jpg



Updated view of erosion on the waterside slope. Fall 2018.

Photo 2 of 4 : FA_2018_RD2085_115_1_20180911_00001.jpg



View of the erosion at the waterside levee toe. Spring 2017.

LM Start	0.21	Rating **	U	Issue No.	1 (cont)
LM End	0.23	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2018_RD2085_115_1_20180911_00002.jpg



View of the erosion at the waterside levee toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.21	Rating **	U	Issue No.	1 (cont)	
LM End	0.23	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.682798 °		37.683052 °
				-121.262059 °		-121.261851 °
DWR ID	DWR_RD2085_03_s_2014_1					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.						

Photo 4 of 4 : FA_2018_RD2085_115_1_20180911_00003.jpg



View of the erosion at the waterside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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